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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/727,554	12/04/2000	Masahiro Arai	040679/1173	4320	
7:	590 08/27/2002				
FOLEY & LARDNER Washington Harbour 3000 K Street, N.W., Suite 500 P.O. Box 25696 Washington, DC 20007-8696			EXAMINER		
			CORRIGAN, JAIME W		
			ART UNIT	PAPER NUMBER	
			3748		
			DATE MAILED: 08/27/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	<u></u>			
Office Action Summary		09/727,554	ARAI ET AL.				
		Examiner	Art Unit				
		Jaime W Corrigan	3748				
	The MAILING DATE of this communication a			••			
Period fo	r Reply						
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION asions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perion to reply within the set or extended period for reply will, by state eply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a ceply within the statutory minimum of third will apply and will expire SIX (6) MONute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communications BANDONED (35 U.S.C. § 133).	cation.			
1)[Responsive to communication(s) filed on 2	6 June 2002 .					
2a)□		This action is non-final.					
3)	,		tters, prosecution as to the me	rits is			
, —	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
· _	on of Claims						
	Claim(s) 1-10 is/are pending in the application						
_	4a) Of the above claim(s) is/are withdrawn from consideration.						
· _	Claim(s) <u>2-4 and 6-8</u> is/are allowed.						
·	Claim(s) <u>1,5,9 and 10</u> is/are rejected.						
·	Claim(s) is/are objected to.						
· ·	Claim(s) are subject to restriction and on Papers	l/or election requirement.					
	The specification is objected to by the Exami	nor					
· -			he Evaminer				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
,	If approved, corrected drawings are required in						
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
•	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* 5	See the attached detailed Office action for a li	ist of the certified copies not	received.				
14) 🗌 A	14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
) \square The translation of the foreign language ${\mathfrak p}$	• •					
Attachmen	•						
2) X Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)				

DETAILED ACTION

This Office Action is in response to Amendment C and RCE filed on 6-26-02. Claims 1-2, 4-5, 7-8 have been amended. Claims 9-10 have been added. Overall, claims 1-10 are pending in this application.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1, 5 are indefinite and unclear in scope since the preamble of the claims states that the system has a throttle valve and the body of the claims states that the system is throttleless.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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In as far as they are definite claims 1, 5, 9-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Luria (PN 4,084,557).

Regarding claims 1, 5 Luria discloses a method for controlling intake air (See Abstract) of an internal combustion engine, the engine having at least one combustion chamber (See Figure 1) provided with an intake valve (See Figure 1 (8)) together with an intake manifold (See Figure 1 (200)) provided with a throttle valve (See Figure 1 (254)), wherein the opening and closure timings of the intake valve are adjustable independently from a crankshaft position (See Abstract, Column 1 Lines 16-29, Column 2 Lines 65-68, Column 3 Lines 1-4) to control the amount of intake air (See Column 1 Lines 16-29) supplied to the combustion chamber, the method comprising: damping an operating signal for the intake valve relative to a change in acceleration or deceleration demand on the engine (See Abstract, Column 2 Lines 64-68, Column 3 Lines 1-4, Column 4 Lines 13-54), for unthrottled intake air control (See Figures 7a, 7b, Column 9 Lines 66-68, Column 10 Lines 1-10).

Regarding claim 9 Luria discloses the operating signal is for timing the opening and closing of the intake valve (See Abstract, Column 2 Lines 64-68, Column 3 Lines 1-4, Column 4 Lines 13-54).

Regarding claim 10 Luria discloses the operating signal is for regulating the air intake into the combustion chamber (See Abstract, Column 1 Lines 16-29).

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Allowable Subject Matter

Claims 2, 4, 7-8 are allowed.

Response to Arguments

Applicant's arguments with respect to claims 1, 5 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Luria (PN 4,033,304), Boggs (PN 5,233,948), Schechter (PN 5,996,560), Russ (PN 6,161,521) disclose similar variable valve timing systems.

Any inquiry concerning this communication from the examiner should be directed to Examiner Jaime Corrigan whose telephone number is (703) 308-2639. The examiner can normally be reached on Monday - Friday from 8:30 a.m. – 6:00 p.m. 2nd Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion, can be reached on (703) 308-2623. The fax number for this group is (703) 308-7763.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0861.

JC

Jaime Corrigan

Jame Corrigan

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Patent Examiner

August 21, 2002

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THOMAS DENION
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700